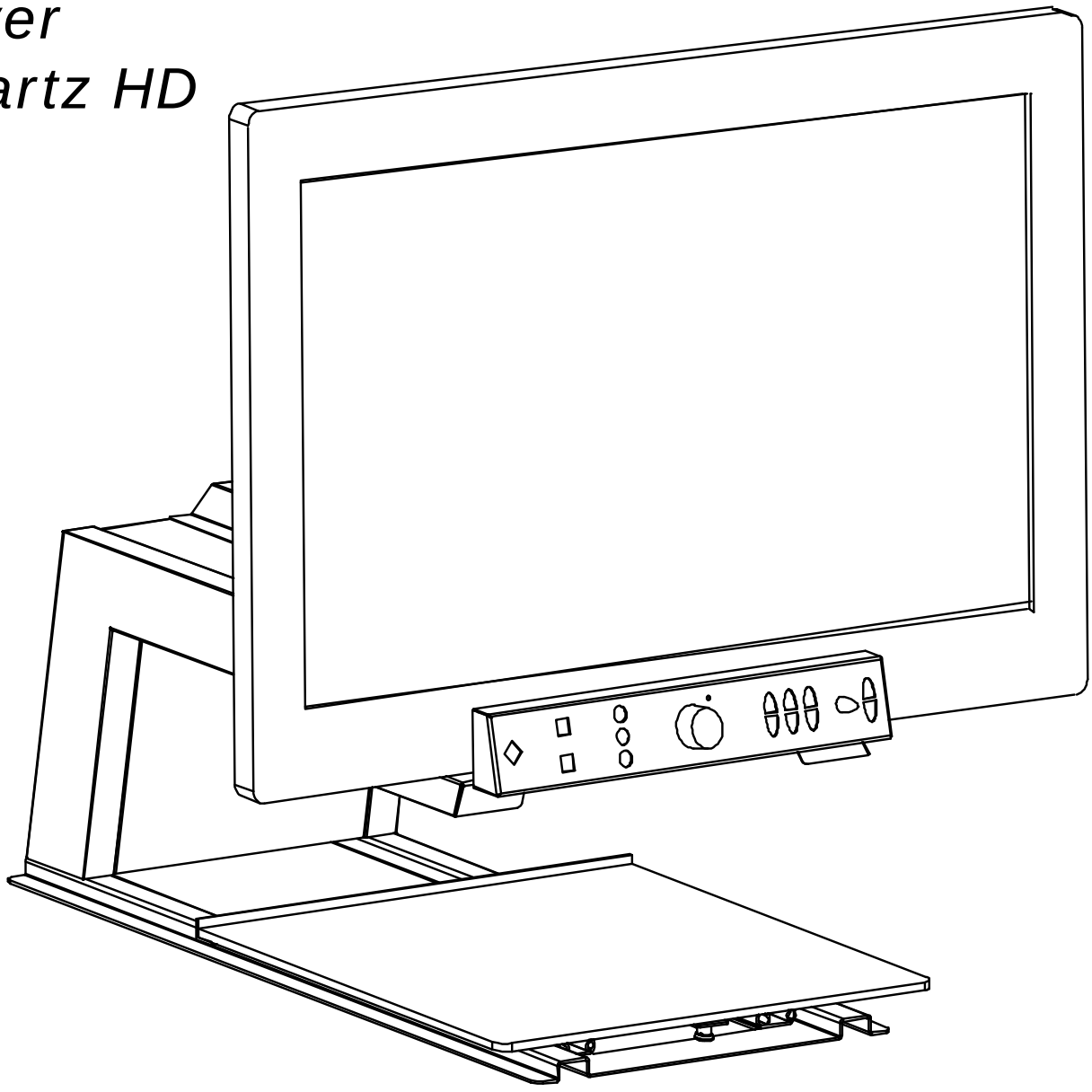
EN

KOBA VISION

Video magnifiers

EasyViewer
Silver
Quartz HD



User Manual

This manual decribes the following versions of the KOBA Vision video magnifiers:

- EasyViewer 3.1.6
- Silver 3.1.6
- Quartz HD 3.1. (HD)

In combination with screen: Samsung LE32A558.

Slight differences are possible if other verions or screens are used.

The latest versions of the manual can be downloaded from the KOBA Vision website: http://www.kobavision.be.

Release date: Monday, 16 March 2009

VIDEO MAGNIFIERS

User Manual

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Chapter 1

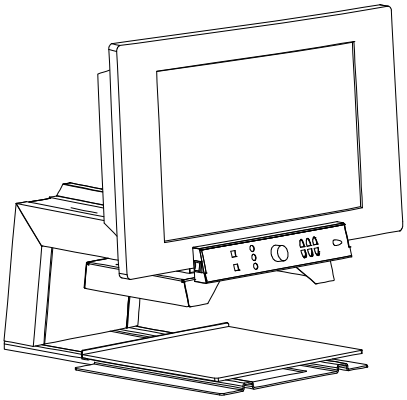
Introduction

Thank you very much for buying this video magnifier. We have gone to great lengths to create a qualitative and user-friendly device and we hopeyout will be able to use it for years to come.

Video magnifier parts

You will need the following parts to be able to use the video magnifier:

Video magnifier EasyViewer, Silver, Quartz HD



Screen

To be able to use the video magnifier, you need a screen with the following specifications:

- HDMI input, DVI
- Suspension VESA 75/75, VESA 100/100, VESA 200/100, VESA 200/200
- Main switch and remote receiver at the side

Always ask KOBA Vision or your dealer whether your screen specifications are sufficient.

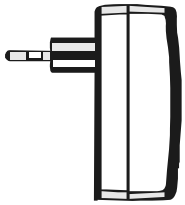
Warning

The screen is to be assembled and disassembled by authorized persons exclusively. Non-compliance can cause severe damage.

Adapter

To feed the device, you need to connect the adapter. Only use the video magnifier in combination with adapter:

AC Adapter FranMar FRA024-S09.



HDMI-HDMI or HDMI-DVI connector

You need a HDMI-HDMI of HMDI –DVI connector to connect the video magnifier to the screen. Depending on the input on the screen, you will choose an HDMI-HDMI or HDMI-DVI.

What would you need?

Aerial cable

If you also wish to use the screen as a TV, you will need an aerial cable that plugs into the cable distribution network.

Not all screens have an aerial terminal.

HDMI–DVI, HDMI-HDMI, VGA-VGA connector (computer connection)

To use the screen as a computer screen, you will need an HDMI-DVI, HDMI-HDMI or VGA–VGA connector. This connector will help you connect your computer to the screen.

Depending on the screen type, you will need an HDMI-DVI, HDMI-HDMI of VGA- VGA connector. Always look at the screen specifications.

Audio cable (computer connection)

If you use the screen as computer screen, you need an audio cable to pass the sound from your computer to the speakers of the screen.

Warning

Cables are to be plugged in by authorized persons exclusively. Non-compliance can cause severe damage.

Chapter 2

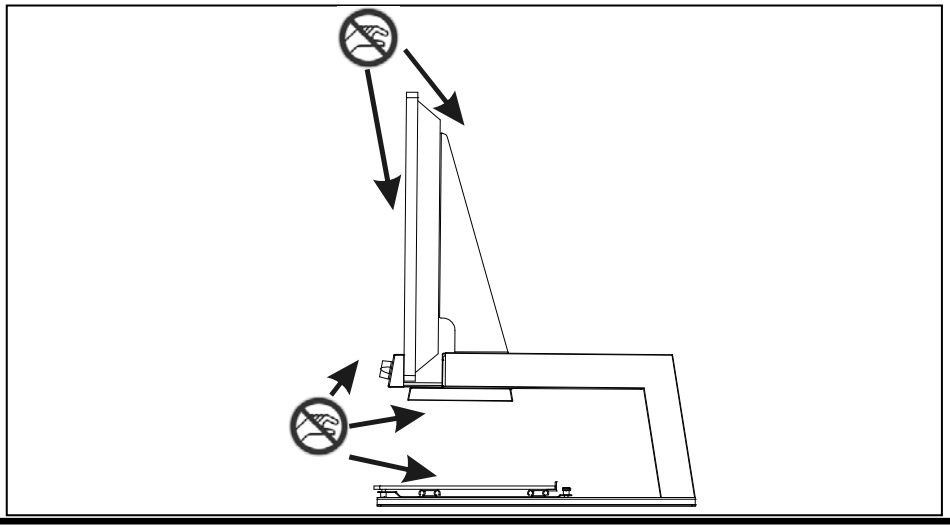
Safety and maintenance instructions

Safety instructions

- Consult the user manual of the screen for specific safety instructions that comes with the screen.
- Save this manual carefully. It contains all necessary information about your device.
- Keep the device in a dry, well-vented and clean spot. Do not place the device in direct sunlight or next to a source of heat.
- Never use this device in ambient temperatures higher than 35°C.
- This device is designed as aid to magnify documents. Any change of purpose voids the CE-mark.
- It is compulsory to electrically ground the device. The manufacturer cannot be held responsible for any injuries to humans or animals or for any damage to objects caused by non-compliance with this safety instruction.
- Never attempt to repair the device by yourself. It is dangerous to remove protective covers which are there to prevent electric shock. You must contact KOBA Vision or your dealer in case of defects.
- To avoid electrocution, do not place the device in a spot where it can come into contact with liquids.
- Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. Do not dispose of your old product in your general household waste bin. Dispose of the complete product (including its cables, plugs and accessories) in the designated collection facilities.

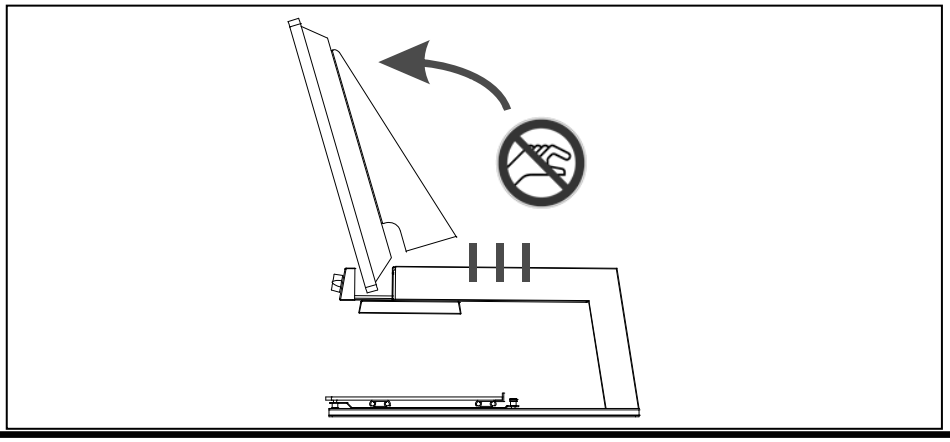
Warning

You must be extremely cautious when moving the video magnifier.
The video magnifier must not be picked up by the screen, the type panel, the light shades or the slide table.



Warning

The screen is to be assembled and disassembled by authorized persons exclusively. Non-compliance can cause severe damage.



Maintenance instructions

- The device can be cleaned with a damp cloth. Never use chemicals for they can damage the finish and/or other parts.
- Occasionally clean the glass plate of the scanner using a damp cloth.
- After a certain amount of time, the slide rail s need to be lubricated with oil or adequately fluid grease.
- The adapter must only be replaced by the same type (AC Adapter FranMar FRA024-S09) after switching off the device and removing the adapter from the grid.
- Treat your device with care and you will enjoy it for years to come.

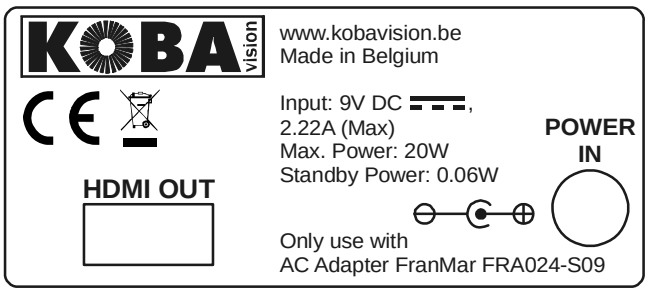
Chapter 3

First-time use

You need to go through the following steps to use the video magnifier for the first time:

- Connect cables
- Set screen
- Check wether the device works

Connecting cables



HDMI OUT: Input for HDMI connector to the video magnifier screen.

POWER IN: Plug for the adapter.

Set screen

Set the screen before taking the device into use.

To be able to make maximum use of the video magnifier, set the following display controls:

Contrast: maximum

Brightness: 40%

Colour: 30%

Sharpness: 40%

Checking whether the device works

Please check whether the device works after installing and setting. Switch on the screen and the video magnifier. (See next chapter – Switching on/off)

Chapter 4

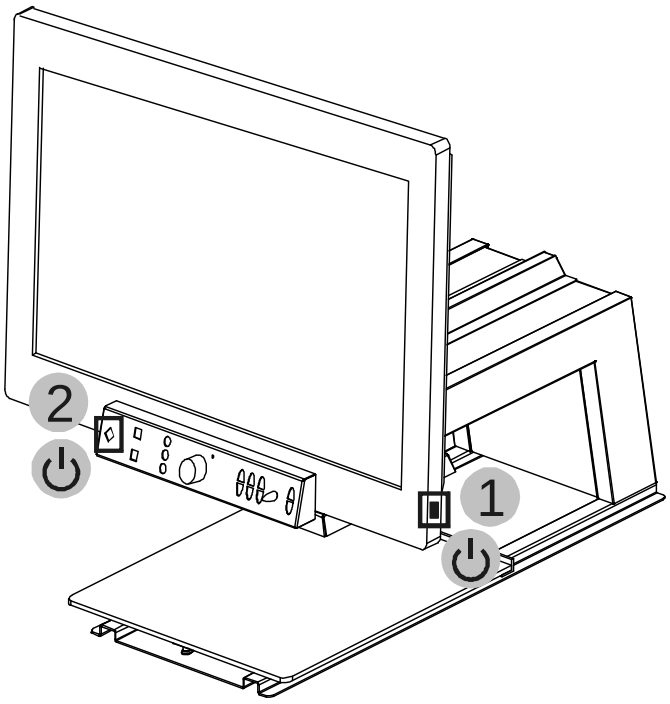
Controls

After having successfully connected and tested the video magnifier, we will now go into the controls and the operation of the video magnifier.

Switching on/off

Switching on

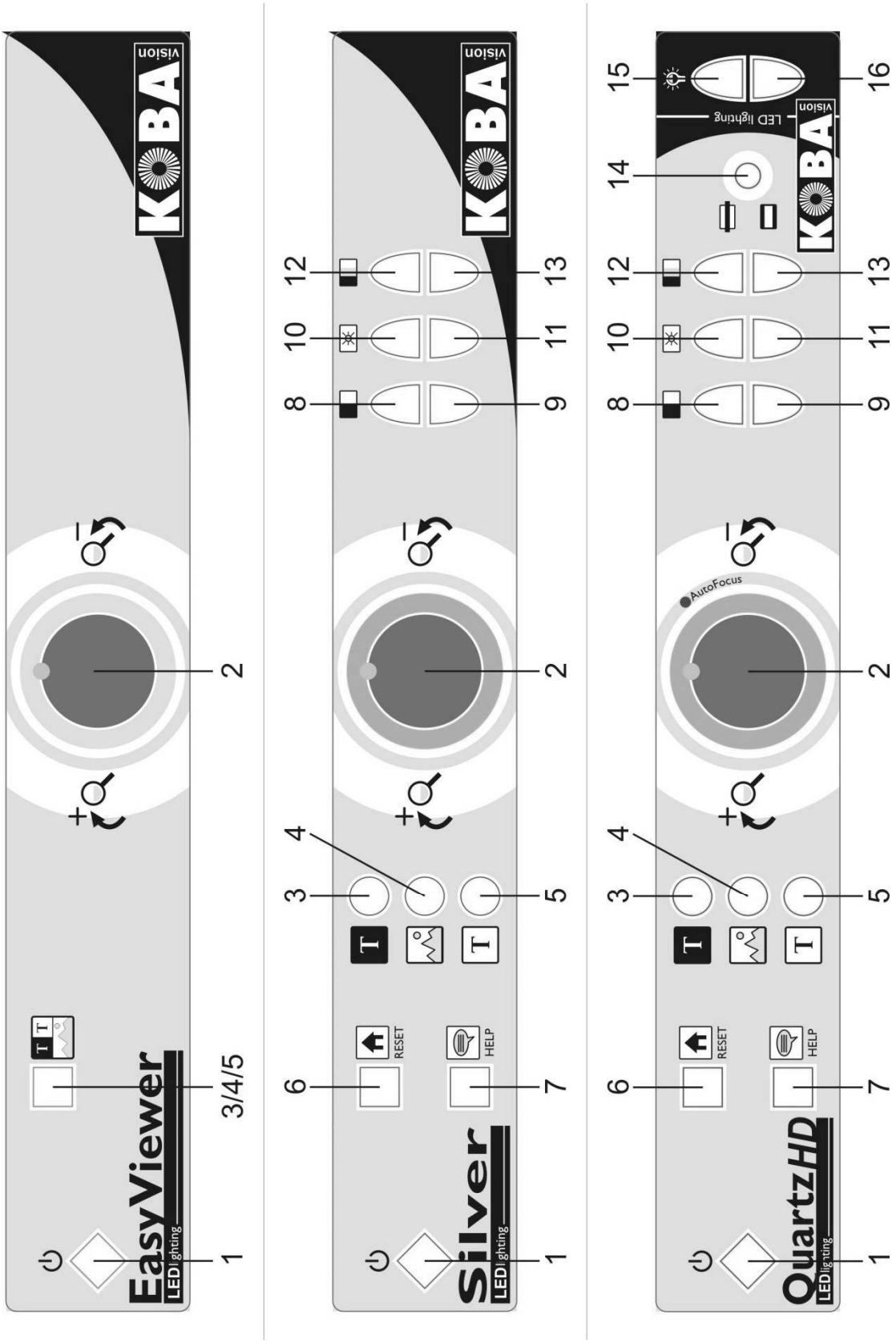
1. Press the button to switch on the screen. **(1)**
2. Press the button at the left side of the interface to switch on the video magnifier. **(2)**



Switching off (reverse order)

1. Switch off the video magnifier with the button at the left side of the interface. **(2)**
2. Press the button to switch off the screen. **(1)**

Brief manual

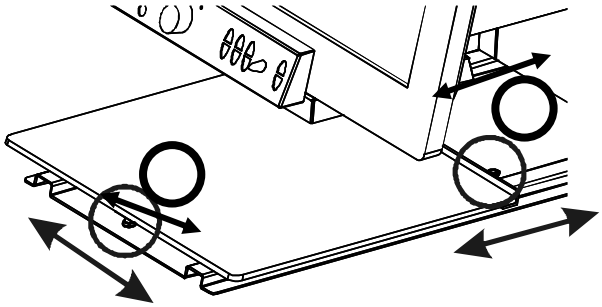


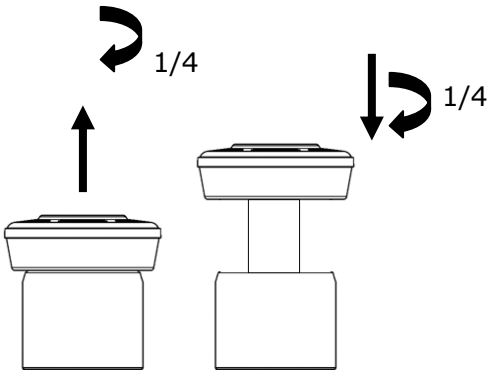
1	**ON / OFF** switch
2	**Right**: zoom in **Left**: zoom out **Push**: autofocus (only Quartz HD)
3	Negativ reading (black background - white letters) **Font colours**: push once more
4	Photo mode
5	Positive reading (white background - black letters) **Font colours**: push once more
3/4/5	Switch between black-white, white-black, colour, black-green, black yellow (only EasyViewer)
6	Factory settings
7	Help
8	More contrast
9	Less contrast
10	More brightness (photo mode) More background (negative and positive reading)
11	Less brightness (photo mode) Less background (negative and positive reading)
12	More colour (only in photo mode)
13	Less coulour (only in photo mode)
14	Readhelp (line or blends)
15	More lighting
16	Less lighting

Slide table

The slide table is made of high-grade materials and can display a whole A3 size sheet.

2 brakes stop the slide table from moving horizontally and vertically. The brakes can be enabled and disabled.





Control panel

This part deals with the control panel for the video magnifier. The illustrations can be found in the middle of this manual.

Zoom in/zoom out

Zoom in: Turn **central turning knob 2** to the right.
Zoom out: Turn **central turning knob 2** to the left.

Autofocus (Quartz HD)

Autofocus is activated by pressing central **turning knob 2**. The red autofocus LED will light up. Autofocus is best activated when reading thick books and when crafting. The camera automatically adapts to height variations, keeping the image focused.

Autofocus is automatically activated when zooming in or out for a few seconds. In this way, autofocus is not used continuously, limiting wear and tear to the camera.

Negative reading

Press **button 3** to activate negative mode. (Negative: black background and white letters)

EasyViewer: ***Buttons 3/4/5*** *are used for switching between: Black-White, Color, White-Black, Black-Green, Black-Yellow.*

Quartz HD and Silver: By pressing ***button 3*** *once more, font colours will change.*
White – Red – Green – Blue –Cyan –Yellow – Magenta –Blue/Yellow – …

Photo mode

Press **button 4** to activate photo mode.

EasyViewer: ***Buttons 3/4/5*** *are used for switching between: Black-White, Color, White-Black, Black-Green, Black-Yellow.*

Positive reading

Press **button 5** to activate positive mode. (Positive: White background and black letters)

EasyViewer: ***Buttons 3/4/5*** *are used for switching between: Black-White, Color, White-Black, Black-Green, Black-Yellow.*

Quartz HD and Silver: By pressing ***button 5*** *once more, background colours will change. White – Red – Green – Blue –Cyan –Yellow – Magenta –Blue/Yellow - …*

Factory settings

Press **button 6** to go to factory settings.

Help (voice buttons, helpt texts)

Press **button 7** to switch between the various help functions.

Help function off – Help function speech only – Help function text only –Help function text and speech – Help function off -…

Contrast

More contrast: Press **button 8.**
Less contrast: Press **button 9**.

Brightness

You can set the brightness in photo mode. You can set background suppression with negative or positive reading.

More brightness: Press **button 10.**
Less brightness: Press **button 11**.

Background suppression

You can set the background in positive or negative reading mode. Brightness can be adjusted in photo mode.

More background: Press **button 10**.
Less background: Press **button 11**.

Colour

You can set the colour in photo mode. This button is of no use when you are working in positive or negative reading mode.

Less colour: Press **button 12**.
Less colour: Press **button 13**.

Readhelp

The readhelp consists of a reading line and a reading bar. This readhelp is extremely useful to people suffering from tunnel vision. The horizontal reading line or reading bar helps to follow the text properly without skipping lines (vertical confusion).

Press **turning knob 14** to activate the reading line. You can set the position (higher/lower) by turning. You can select the line colour by turning and pressing.

Press **turning knob 14** once more to activate the reading bar. You can set the position (higher/lower) by turning. You can adjust the width of the bar with pressing and turning.

Press **turning knob 14** once more to deactivate the readhelp.

Lighting

The led lighting of the video magnifier can be adapted.

More lighting: Press **button 15.**
Less lighting: Press **button 16**.

Usage tips

Reading

Reading is best done in positive or negative mode. These modes adapt the image for the visually impaired to a high-contrast image with improved background. Background and letters can be set at your discretion. The background can be set by means of background suppression. This will allow you to filter out the structure of a sheet. This unique KOBA Vision function allows you at all times to set a contrasty background without annoying paper impurities. A newspaper can be read without annoying paper impurities. Factory settings will take you back to the original settings.

Watch photos

Photos are best watched in photo mode. This mode is a unprocessed image without contrast enhancement. Using the buttons contrast, brightness and colour, you can adjust the image so that the photo becomes clearly visible. Factory settings will take you back to the original settings.

Crafting

Crafting is best done with a small enlargement. It is better to select a dark background during this activity so that the camera is not hindered by large differences in contrast with whatever is darkened by the hands.

Writing

You can also write under your video magnifier. It is best to use a black pen and lined paper.

Readhelp

This readhelp is extremely useful for visually impaired people suffering from tunnel vision. The readhelp consists of a reading line and a reading bar. This help allows a horizontal line or bar to appear. This will keep you from confusing lines in the text (vertical confusion). The reading line can be set to take on different colours. It is adviseable to select a line with a colour that is different from the text. The read help can only be activated in the negative and positive reading mode.

Factory settings

The factory settings button was especially provided to be able to return to the original settings at all times. This means that you can always return to the original settings after having adjusted contrast, background, colour, brightness, zoom, etc.

Video magnifier - computer

Switching between video magnifier and computer

The video magnifier screen can be used as a computer screen. There are two options:

- Connect your computer to the screen. You can use the screen to switch to another input that will allow you to use your computer.
- If video magnifier and computer are both plugged into the HDMI input of the screen, you can easily switch between them by keeping the big round **central turning knob 2** pressed in. Warning! This option is available only if the screen supports CEC (Consumer Electronic Control).

Chapter 5

Troubleshooting

Below is a list of problems that may occur with your video magnifier. Consult the list first before contacting KOBA Vision or your dealer.

Symptom	Possible causes	What to do
No display on the screen	• Power failure • The screen is not switched on	• Check wether the plug of the power cord has been properly plugged into the power point If the device still won't work, pull the plug out of the power point. Then wait 60 seconds before plugging it back into the power point. Turn the screen on again. • Press the "on" button on the remote
No sound	• The screen volume is on zero • The sound has been disrupted • The headphone is plugged in • The HDMI connector is loose	• Slightly turn up the screen volume. • Check wether the sound has not been disrupted. • Point the remote control directly towards the sensor at the front of the screen. • Unplug the headphone • Check the HDMI plug.
No sound or image while the red stand-by light at the front of the screen is burning	• Screen is on stand-by mode	• Press the "on" or "1" button on the remote
The pc modes don't work	• Wrong connectors • Wrong source • Wrong screen resolution	• Check wether the source has been selected correctly. Press the button to open the source list and select the correct source. • Check whether you have set the computer to the correct screen resolution. • Check the settings of the video card in the pc.
Stripes running through the image	• HDMI connector is loose	• Check the HDMI connector.
Bad colours	• HDMI connector is loose	• Check the HDMI connector.
Image is dark	• The lights are off	• Puss the reset-button
The image is blurred (Quartz HD)	• Autofocus is not activated	• Press the central turning knob to activate autofocus

Chapter 6

Warranty

Express warranty

Koba Vision bvba offers a two-year warranty on every KOBA VISION video magnifier, starting from the purchase date. The warranty covers materials and workmanship.

Warranty services are provided by KOBA Vision bvba or a dealer acting for KOBA Vision bvba. When the video magnifier cannot be repaired correctly, KOBA Vision can decide on its own inititiative to replace the reading device by another video magnifier featuring the same specifications. All components and products replaced within the warranty period become property of KOBA Vision bvba.

Warranty provisions

1. The warranty becomes invalid if the video magnifier:
    - Was not used according to instructions or was misused,
    - Was damaged as a result of a fall or blow,
    - Was disassembled or tinkered with,
    - Was repaired earlier by a non-official service partner.

2. Consequential loss is under no circumstances covered by the warranty.

KOBA Vision bvba will neither assume any liability whatsoever nor accept any possibility of liability except for the warranty provisions expressedly stated above. This limitation to the liability does not imply a breach of the customer's legal consumer rights or his or her rights vis-à-vis the seller.

Service fulfillment

Before claiming the warranty or service and before contacting KOBA Vision bvba or a dealer, you must write down product name, serial number, purchase date, invoice number and any error messages or particular problem aspects.

Chapter 7

Data chart

EasyViewer

Type:	KOBA Vision EasyViewer
Inputs:	HDMI OUT, POWER IN
Power supply:	Input: 9V DC 2,22A (MAX) 50-60Hz Max. Power: 20W Standby Power: 0,06W
Measurements (without screen) Height X Width X Depth	270 x 415 x 580 mm
Measurements (with 26"screen): Height X Width X Depth	640 x 670 x 580 mm
Maximum viewing angle	107 mm
Minimum viewing angle	9 mm
Magnification:	*23" screen – 58 cm* 5x – 57x *26" screen – 66 cm* 6x – 64x *32" screen – 82 cm* 7x – 78x

Features:

- Wide-range slide table
- Led lighting
- Illuminated buttons
- Zoom in/zoom out
- Negative reading mode
- Photo mode
- Positive reading mode
- 5 colour combinations: black-white, whtie-black, colour, black-yellow, black-green
- Autofocus

Silver

Type:	KOBA Vision Silver
Inputs:	HDMI OUT, POWER IN
Power supply:	Input: 9V DC 2,22A (MAX) 50-60Hz Max. Power: 20W Standby Power: 0,06W
Measurements (without screen) Height X Width X Depth	270 x 415 x 580 mm
Measurements (with 26"screen): Height X Width X Depth	640 x 670 x 580 mm
Maximum viewing angle	107 mm
Minimum viewing angle	9 mm
Magnification:	*23" screen – 58 cm* 5x – 57x *26" screen – 66 cm* 6x – 64x *32" screen – 82 cm* 7x – 78x

Features:

- Wide-range slide table
- Led lighting
- Illuminated buttons
- Zoom in/zoom out
- Negative reading mode
- Photo mode
- Positive reading mode
- 16 color combinations: black-blue, black-cyan, black-green, black-magenta, black-red, black-white, black-yellow, blue-black, blue-yellow, cyan-black, green-black, magenta-black, red-black, white-black, yellow-black, yellow-blue
- Autofocus
- Factory settings
- Help (spoken buttons, help texts)
- Adapt contrast, colour, background

Quartz HD

Type:	KOBA Vision Quartz HD
Inputs:	HDMI OUT, POWER IN
Power supply:	Input: 9V DC 2,22A (MAX) 50-60Hz Max. Power: 20W Standby Power: 0,06W
Measurements (without screen) Height X Width X Depth	270 x 415 x 580 mm
Measurements (with 26"screen): Height X Width X Depth	640 x 670 x 580 mm
Maximum viewing angle	230 mm
Minimum viewing angle	9 mm
Magnification:	*23" screen – 58 cm* 2x – 57x *26" screen – 66 cm* 2,5x – 64x *32" screen – 82 cm* 3x – 70x

Features:

- Wide-range slide table
- Led lighting
- Illuminated buttons
- Zoom in/zoom out
- Negative reading mode
- Photo mode
- Positive reading mode
- 28 colour combinations: black-blue, black-cyan, black-green, black-magenta, black-red, black-white, black-yellow, blue-black, blue-yellow, cyan-black, green-black, magenta-black, red-black, white-black, yellow-black, yellow-blue, black-orange, orange-black, black-grey, grey-black, blue-white, white-blue, red-white, white-red, orange-white, white-orange, green-white, white-green
- Autofocus
- Factory settings
- Help (spoken buttons, help texts)
- Adapt contrast, colour, background
- Reading line and blends
- HIGH DEFINTION
- Adjust led lighting

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